

FIG. 1

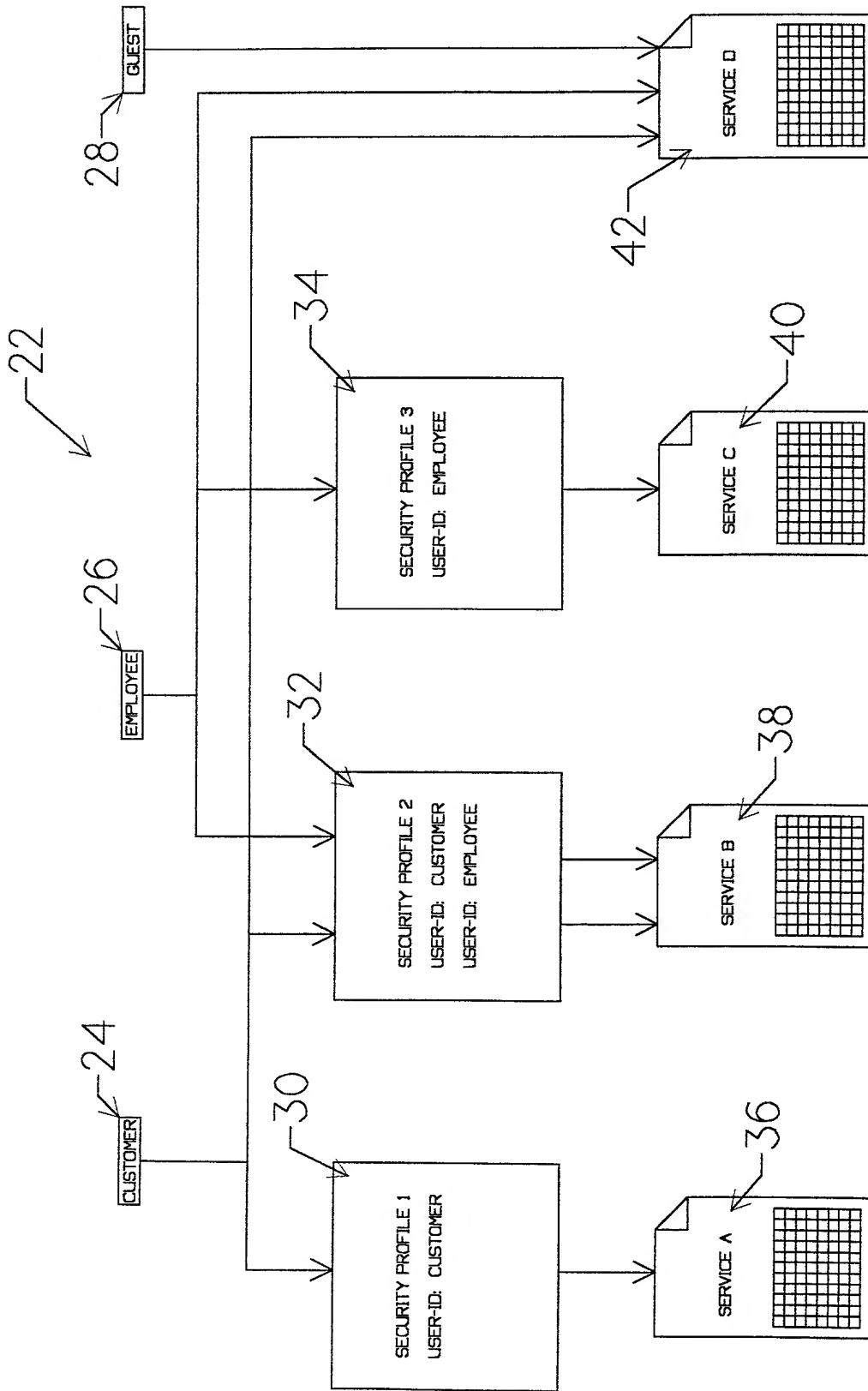


FIG. 2

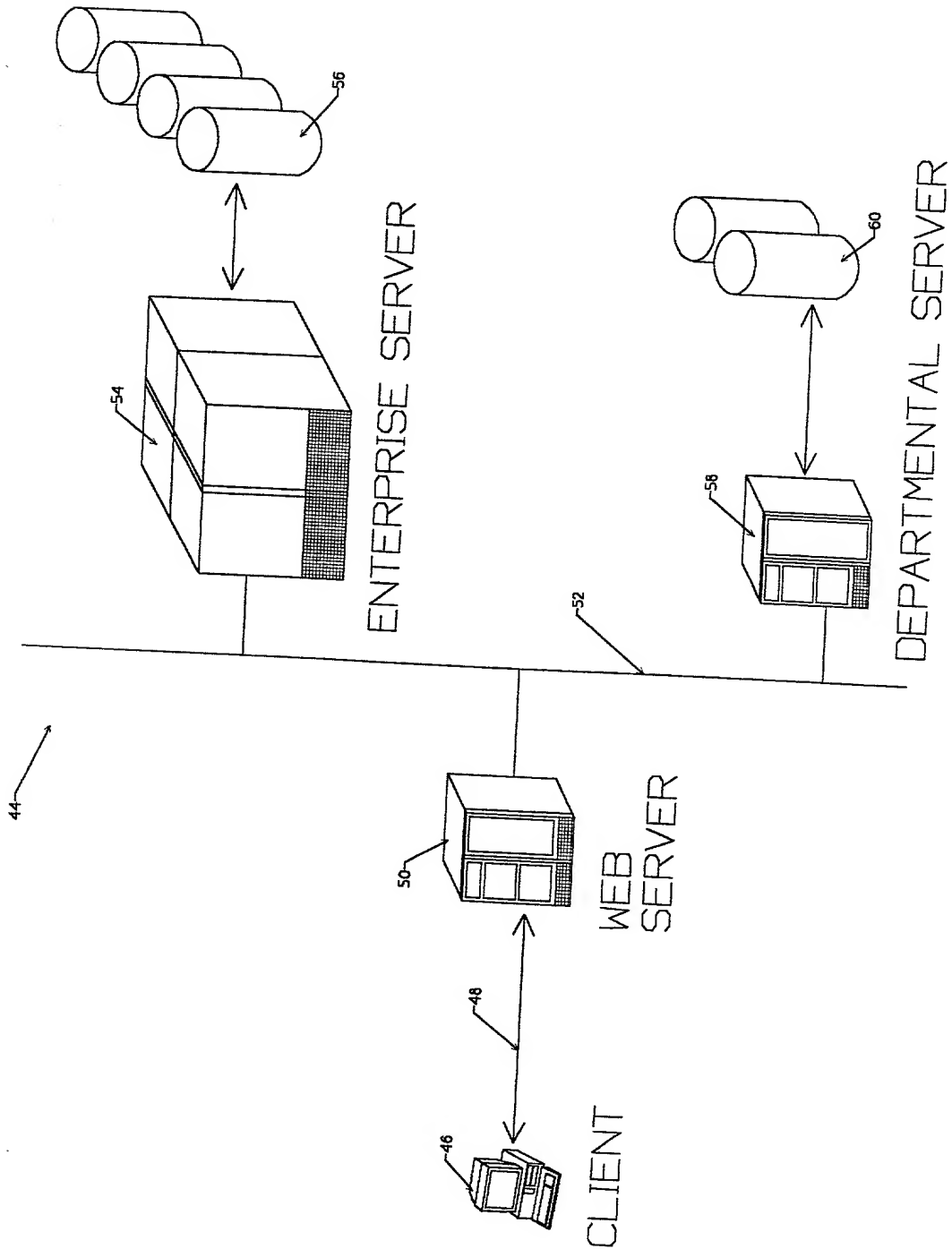


FIG. 3

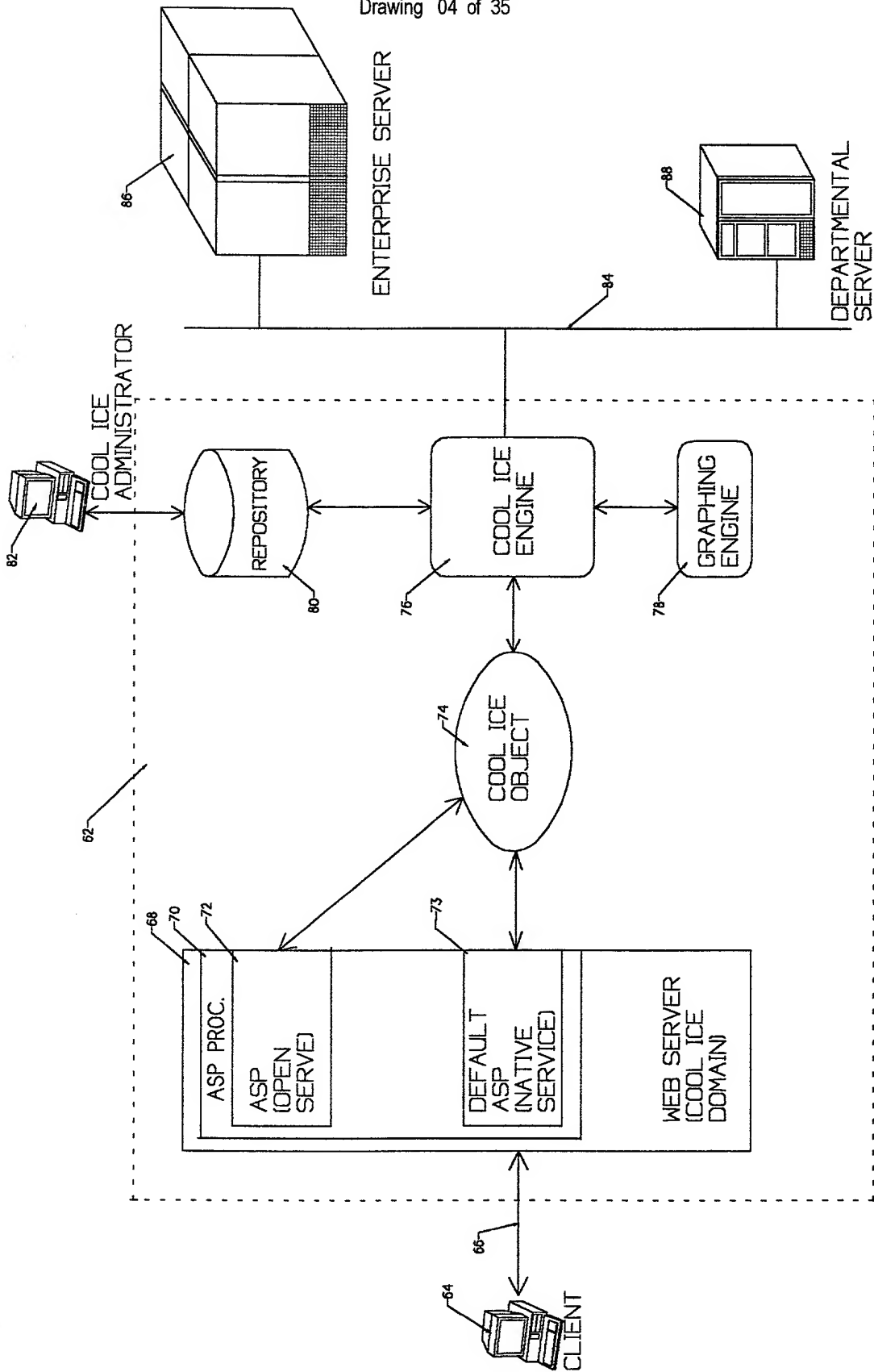
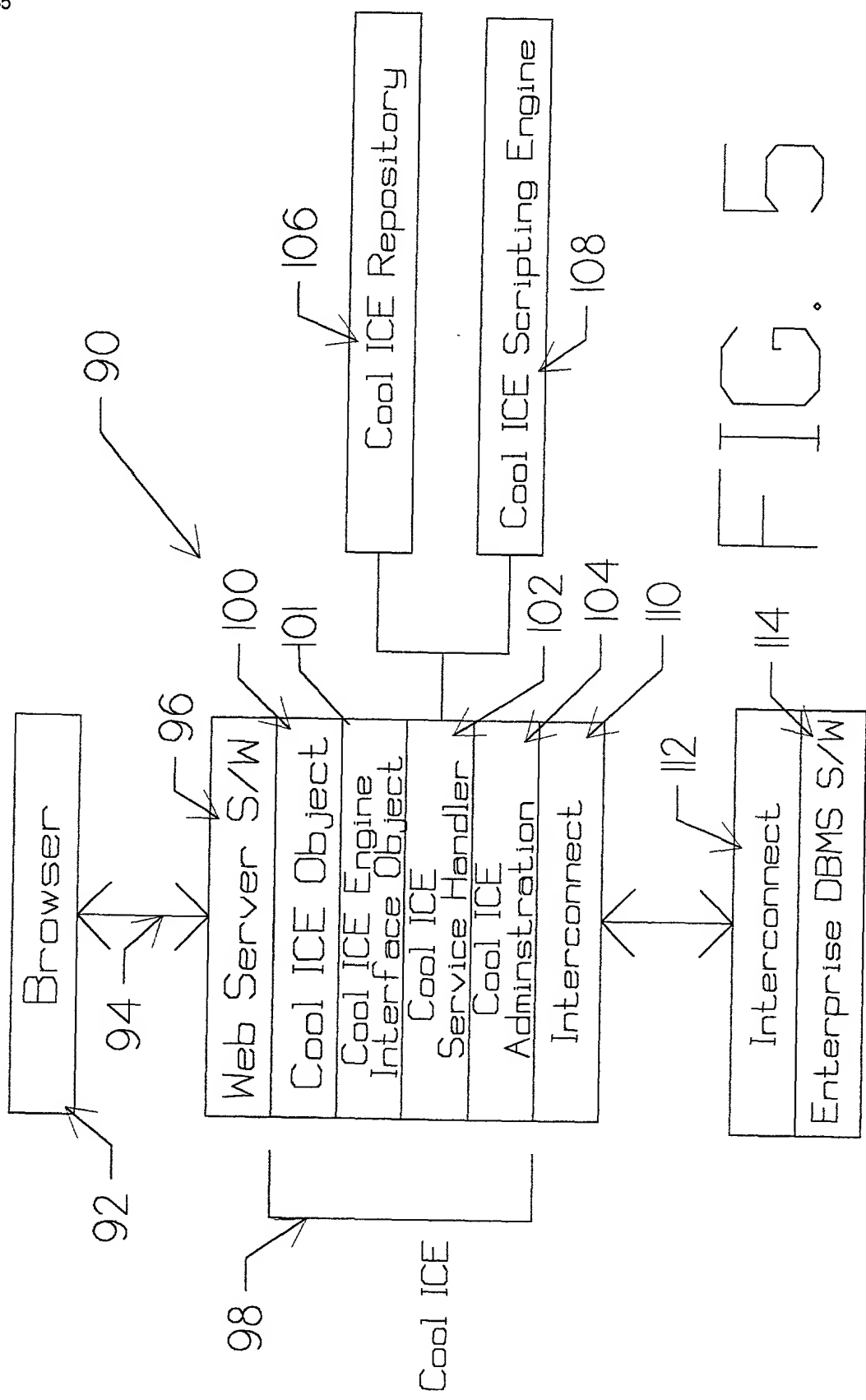


FIG. 4



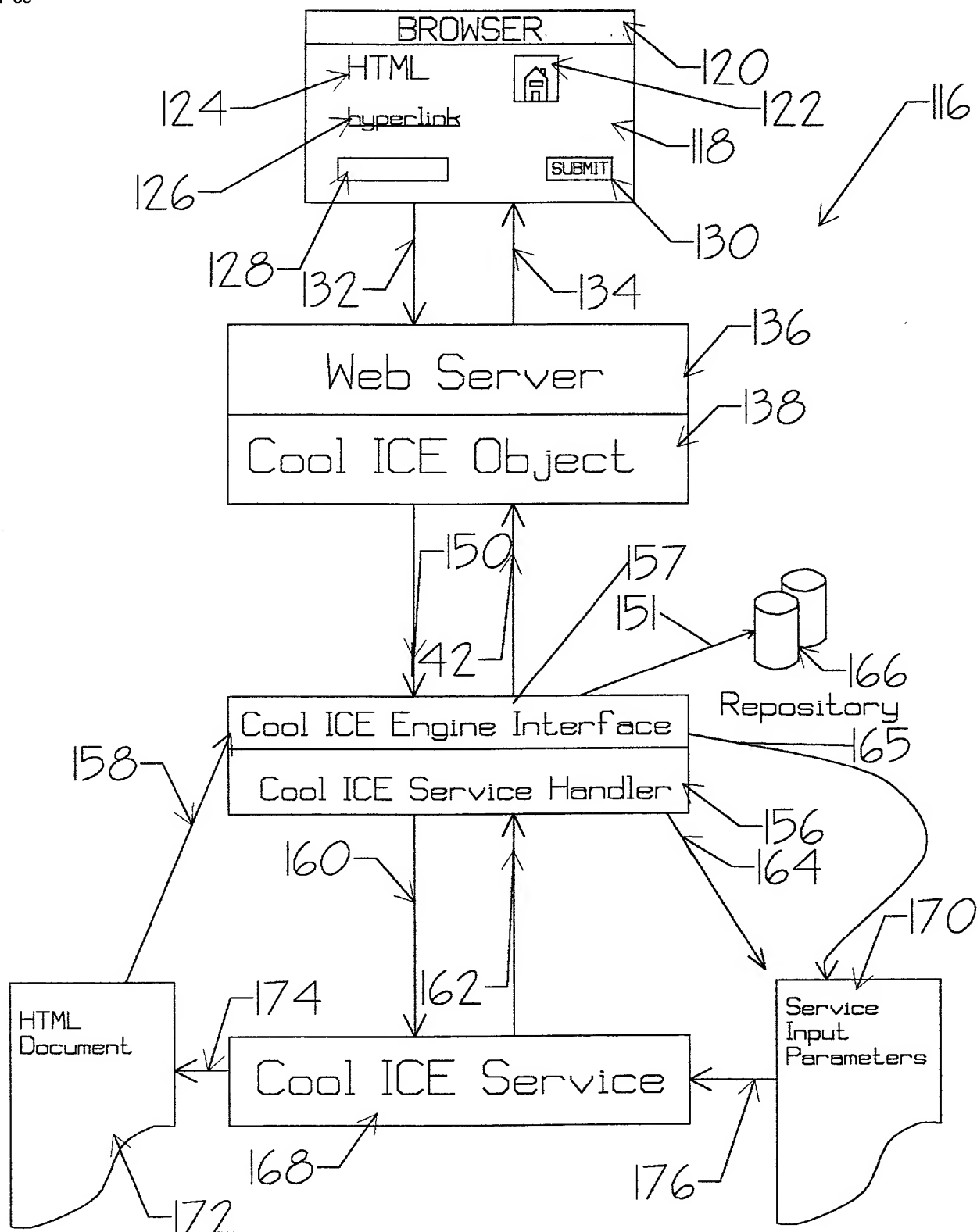


FIG. 6

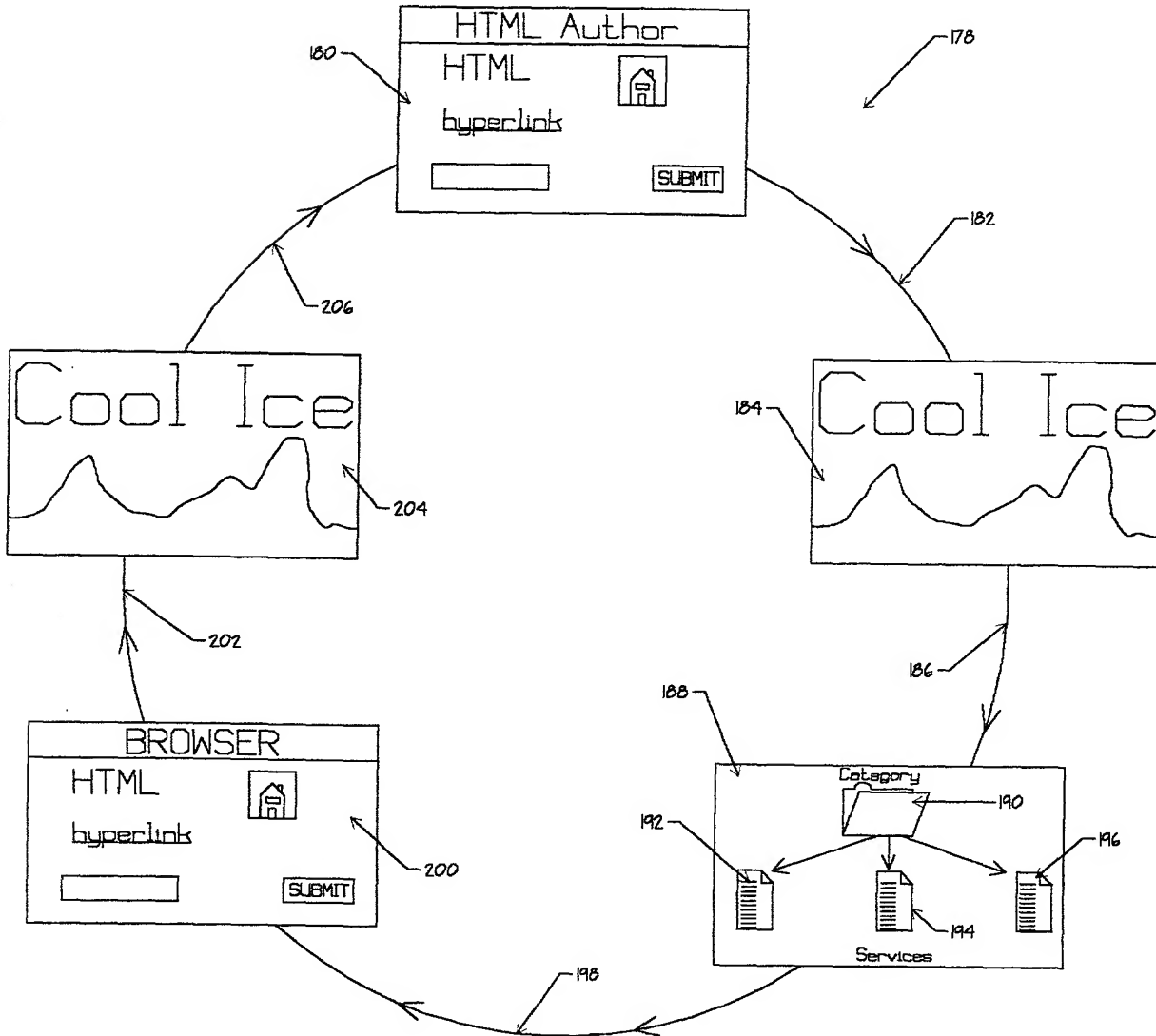


FIG. 7

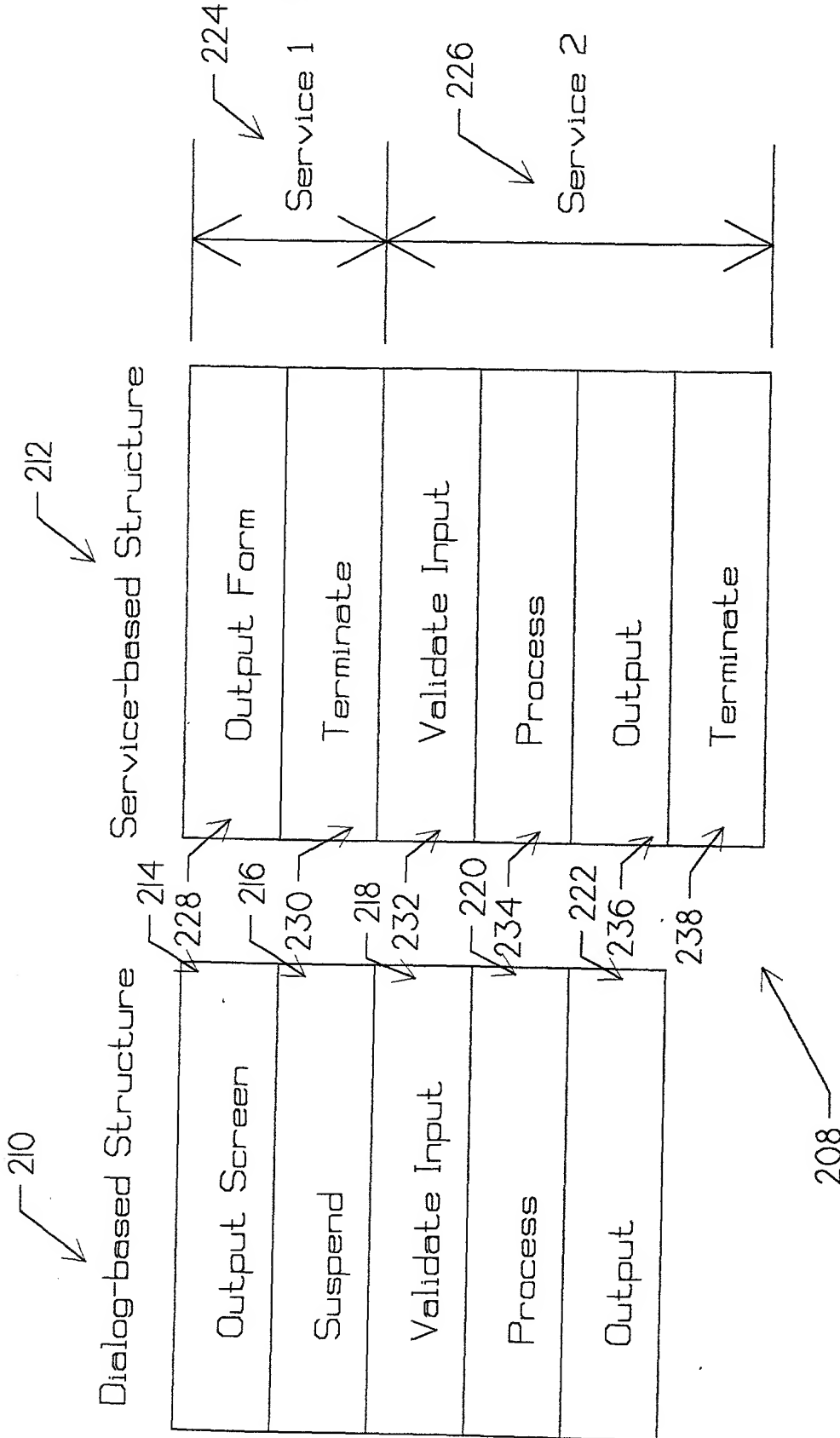


FIG. 8

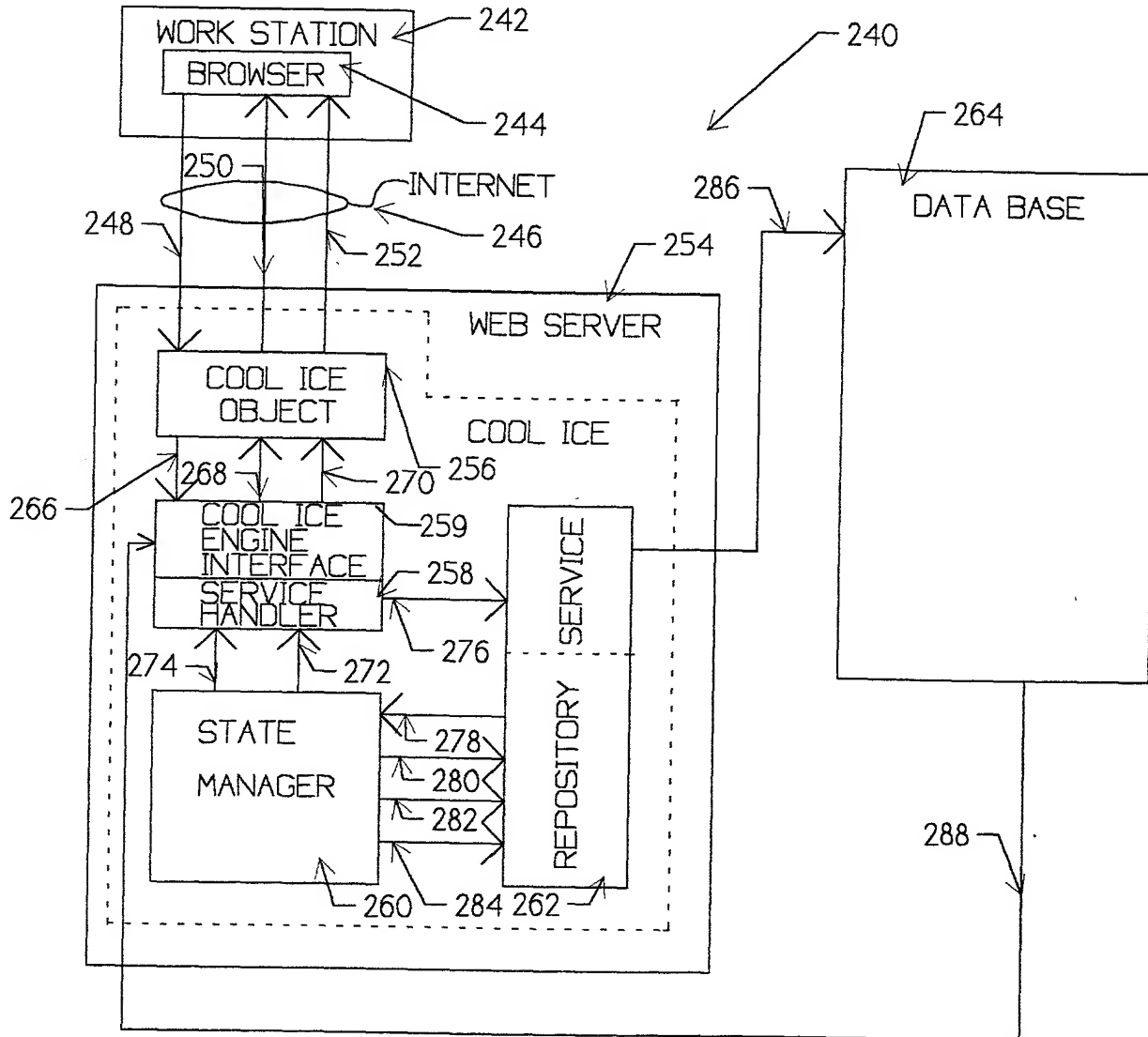


FIG. 9

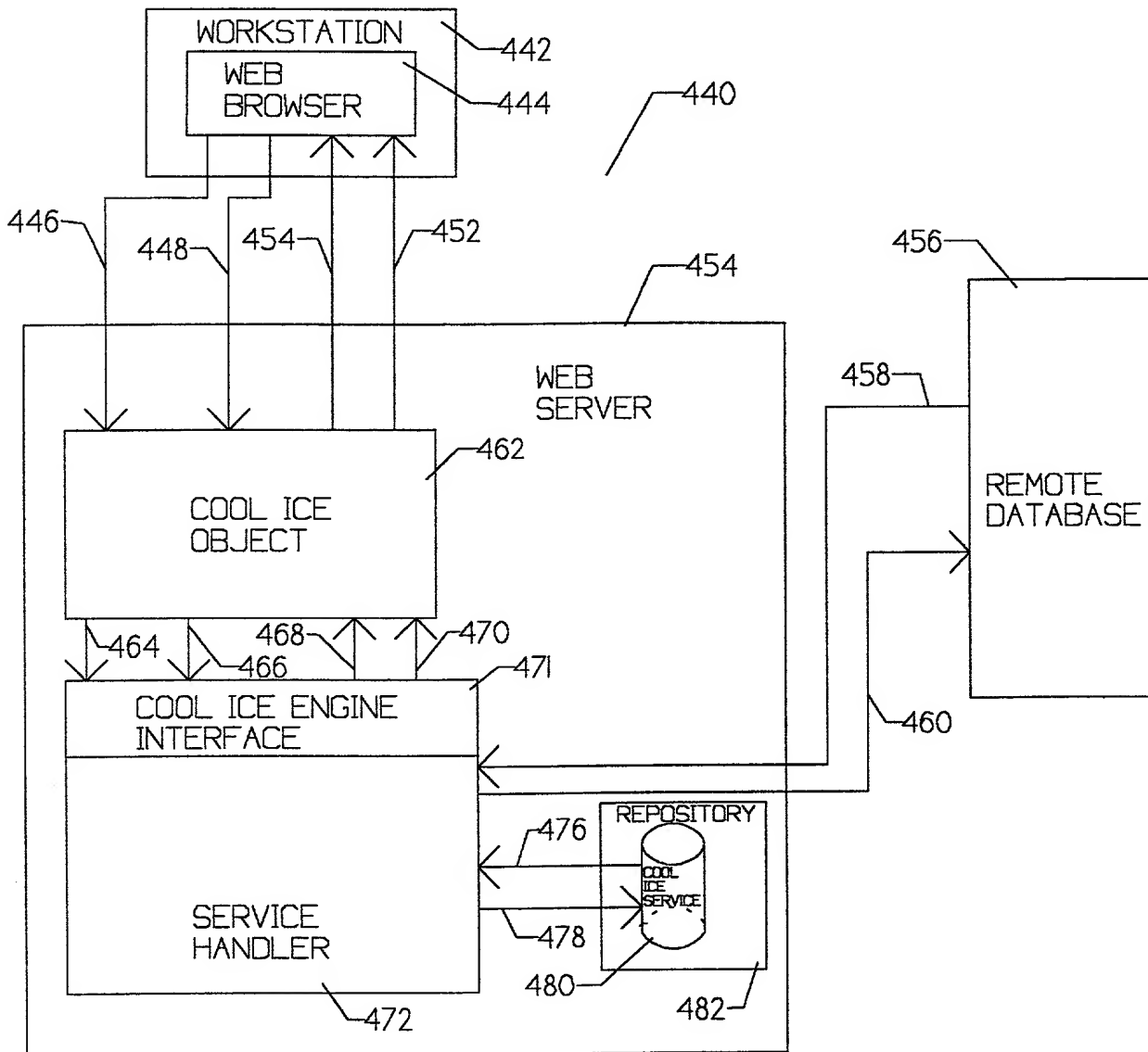


FIG. 10

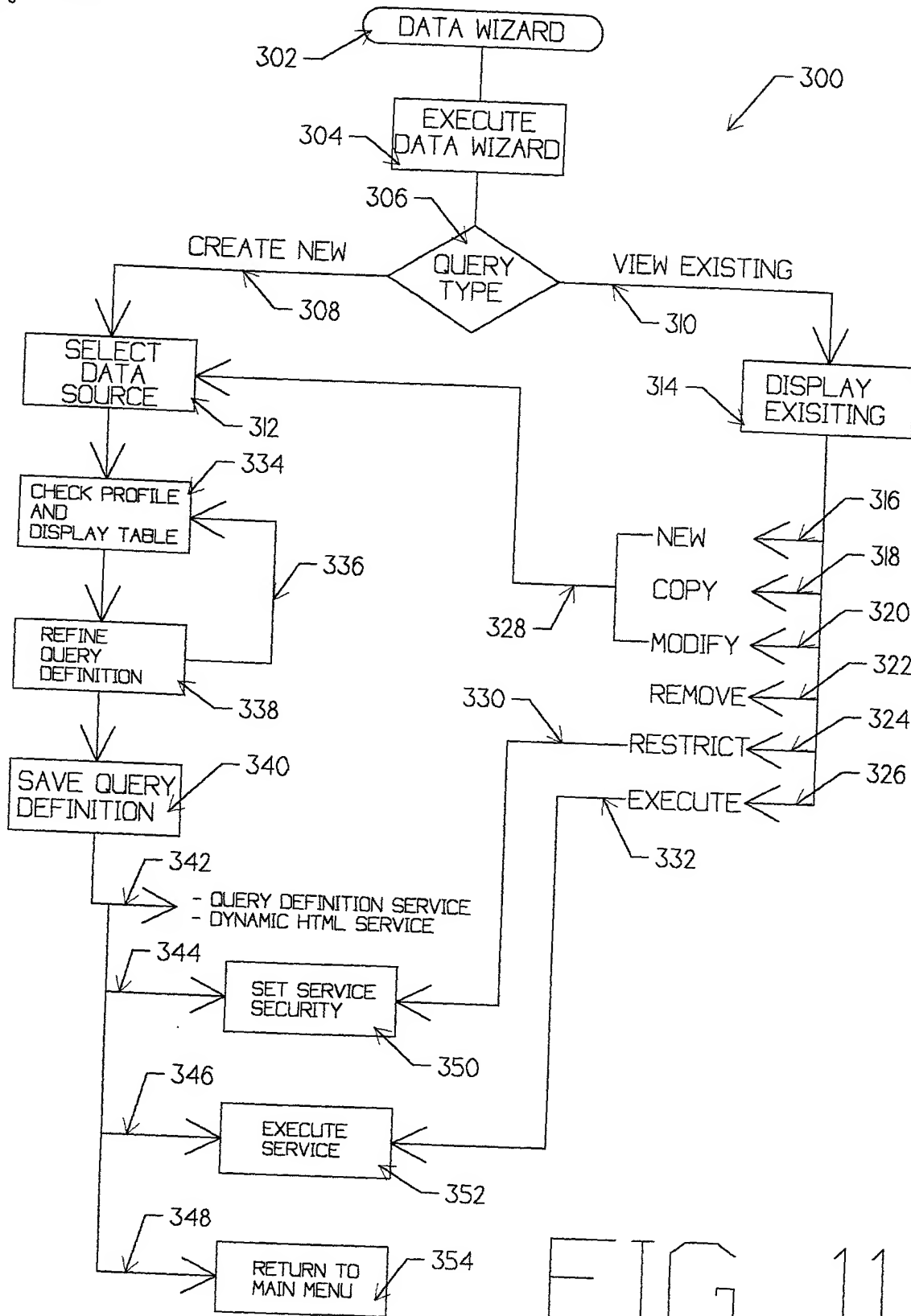


FIG. 11

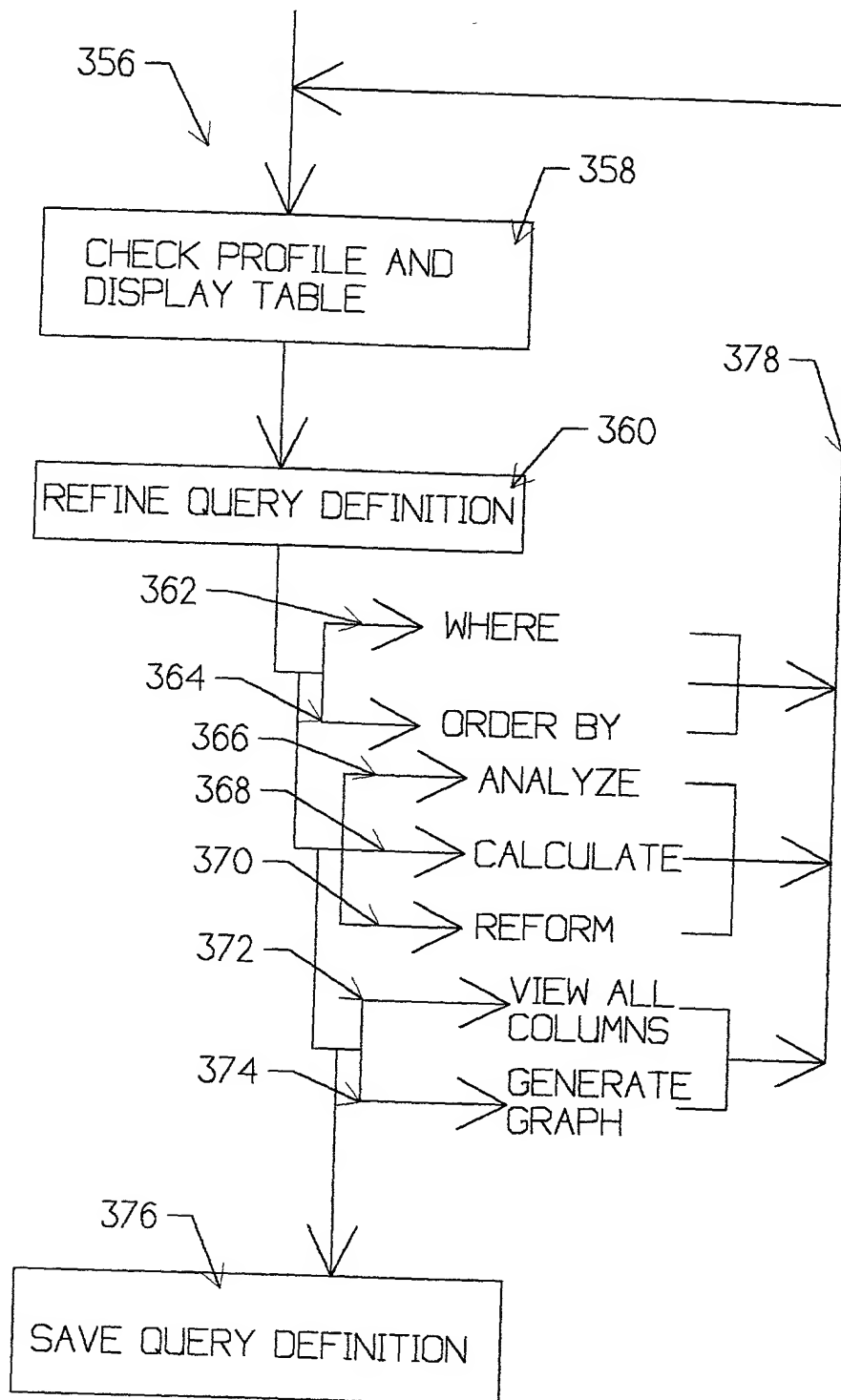


FIG. 12

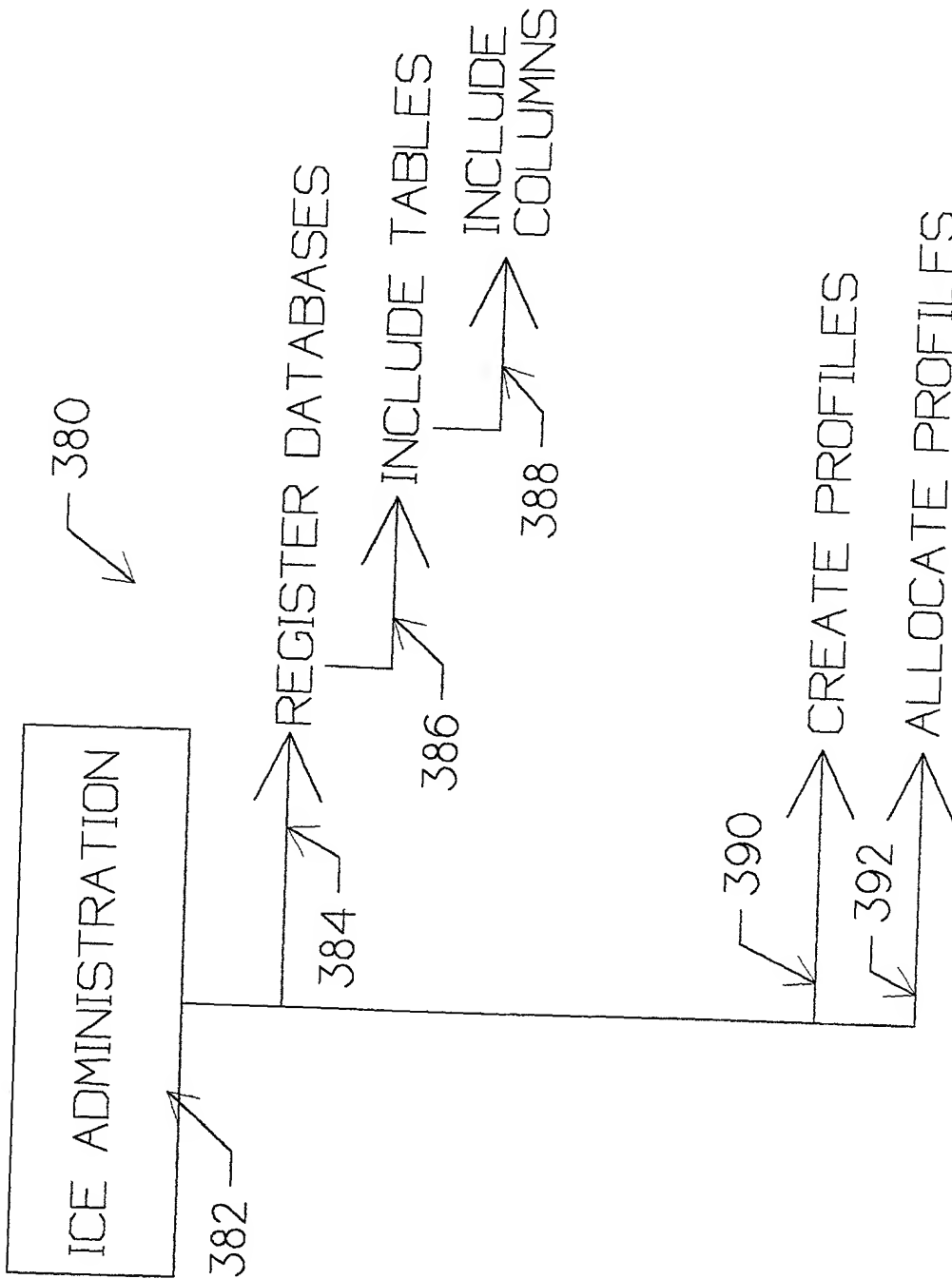


FIG. 13

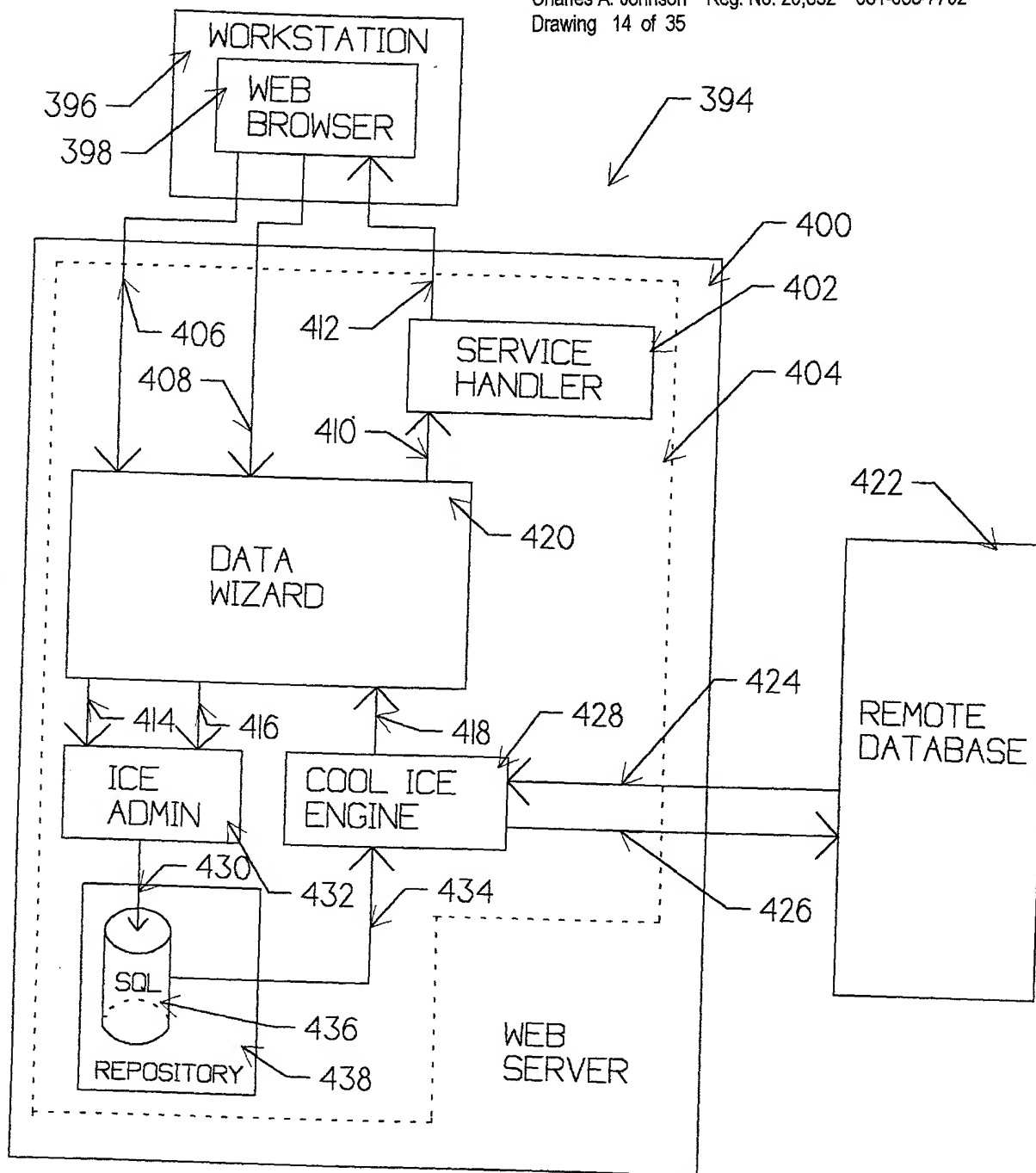


FIG. 14

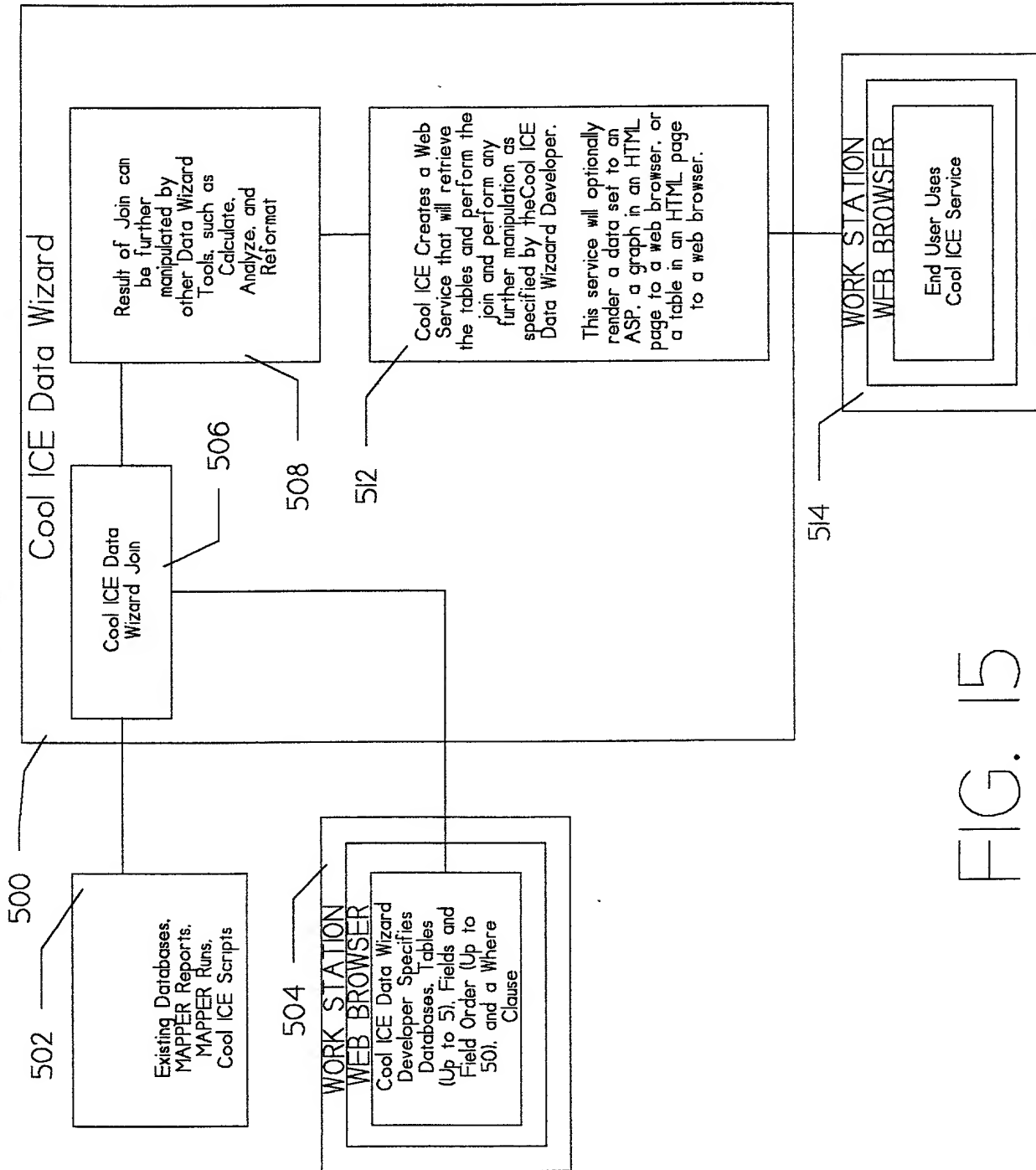
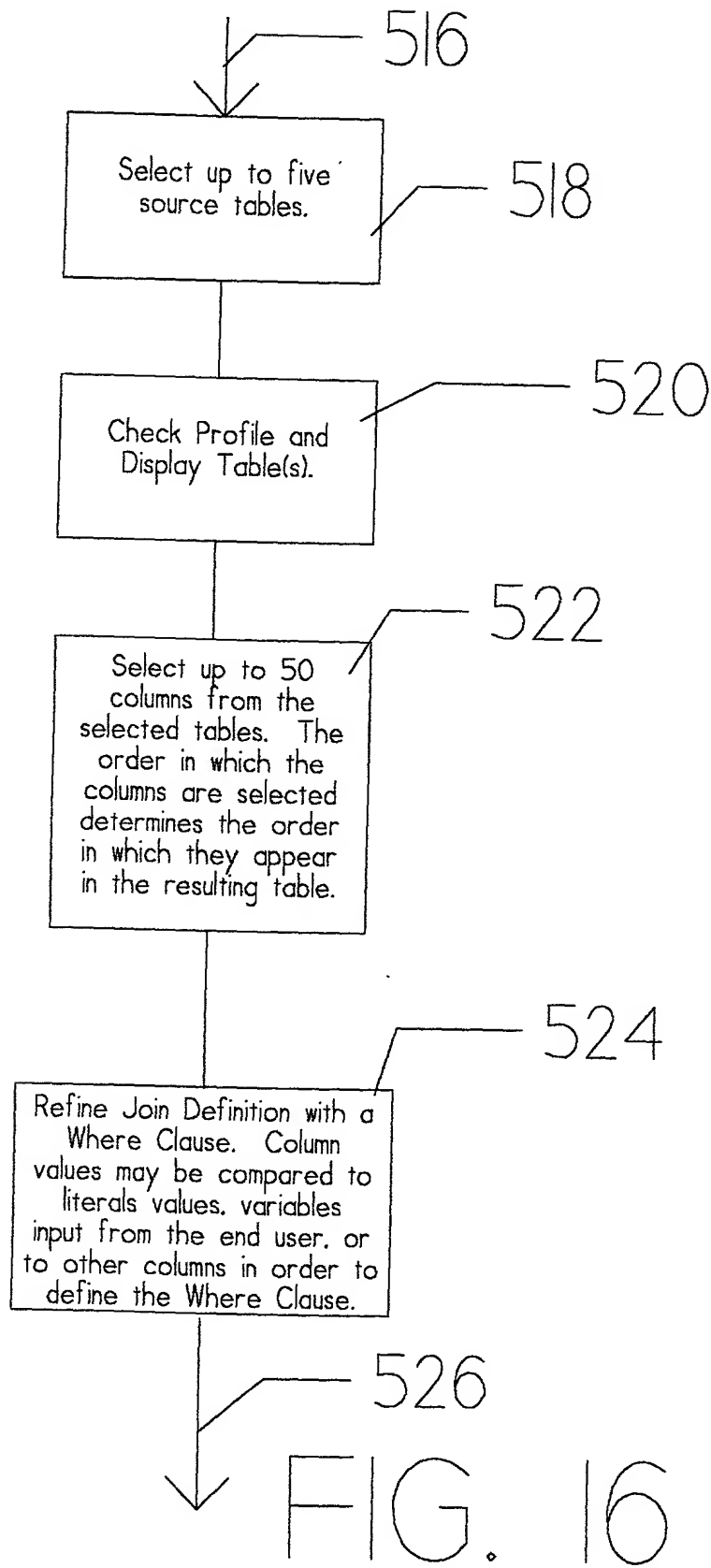


FIG. 15



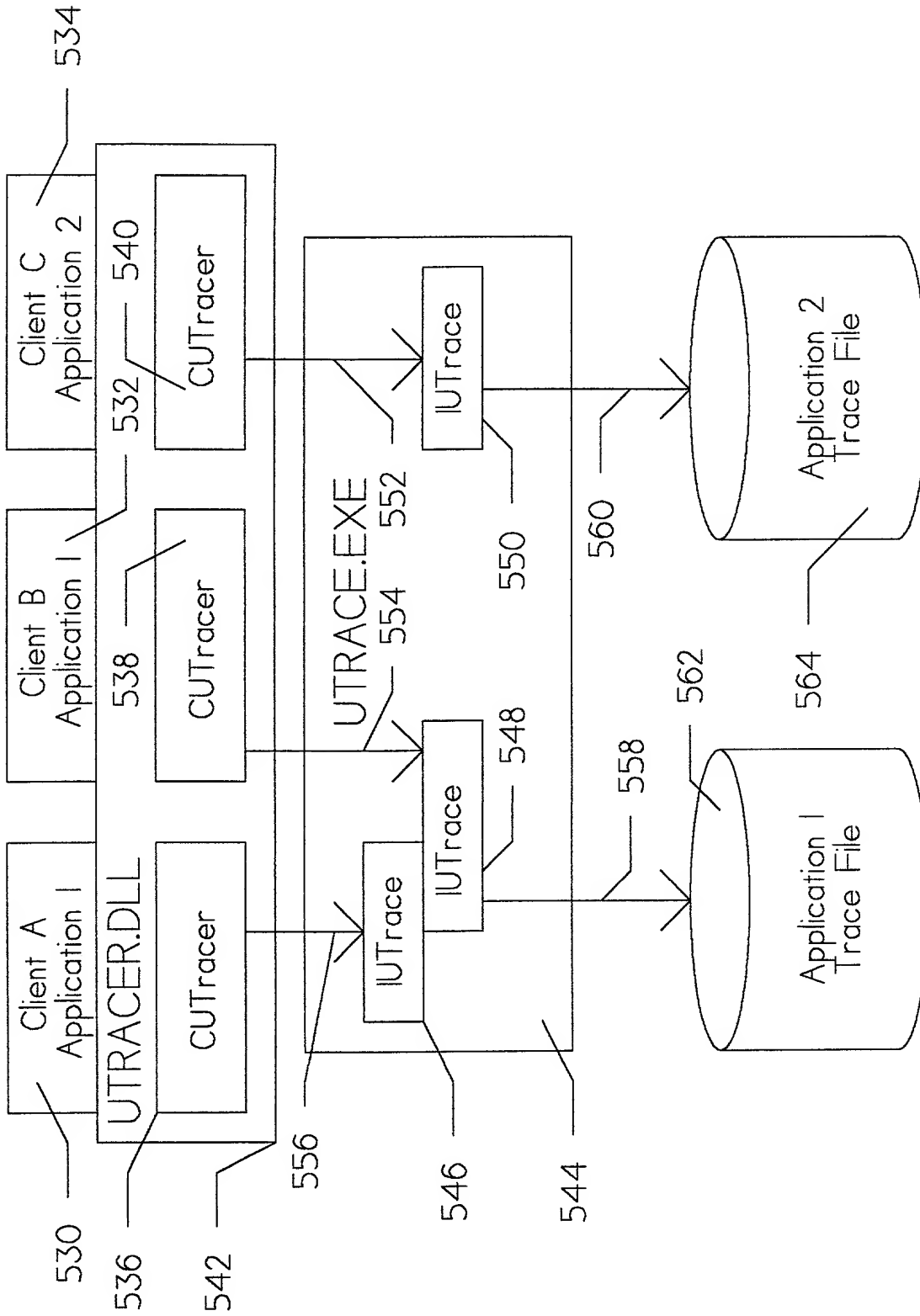


FIG. 17

5652203

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application

565

ENABLETRACE	--	DWORD	value indicating a Boolean (1=trace,, 0=no trace).
MAXENTRIES	--	DWORD	value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	--	DWORD	value indicating message formatting flags.
POLICYFLAGS	--	DWORD	value indicating trace policy flags set for the application.
TRACELEVEL	--	DWORD	value indicating a trace level, 0 = no trace.
TRACEPATH	--	String	value indicating the directory path for the trace files.
REGTRACE	--	String	value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	--	String	value for a specific component of the application.
POLICYFLAGS	--	Value	indicating component level trace policy flags
TRACELEVEL	--	DWORD	Value indicating a trace level, 0 = no trace.
VERSIONTRACE	--	String	value specifying executable component name for version information tracing.

FIG. 18

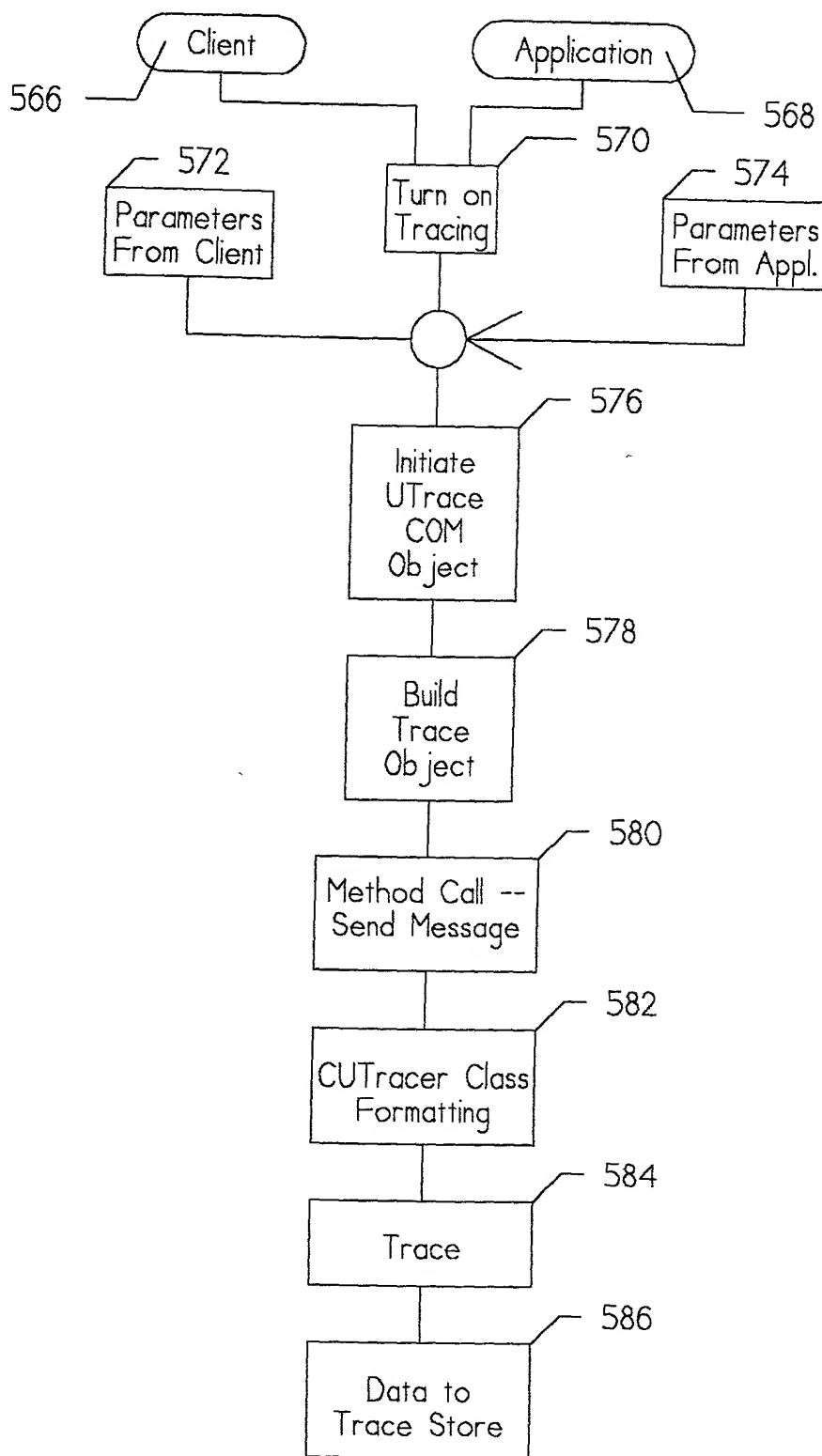


FIG. 19

```
#define CL_TRACE_VERSION      0x1  
#define CL_TRACE_ERROR      0x2  
#define CL_TRACE_INTERFACE   0x4  
#define CL_TRACE_FLOW       0x8  
#define CL_TRACE_DETAIL     0x10
```

FIG. 20A

```
if (m_trace.Active(C)_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

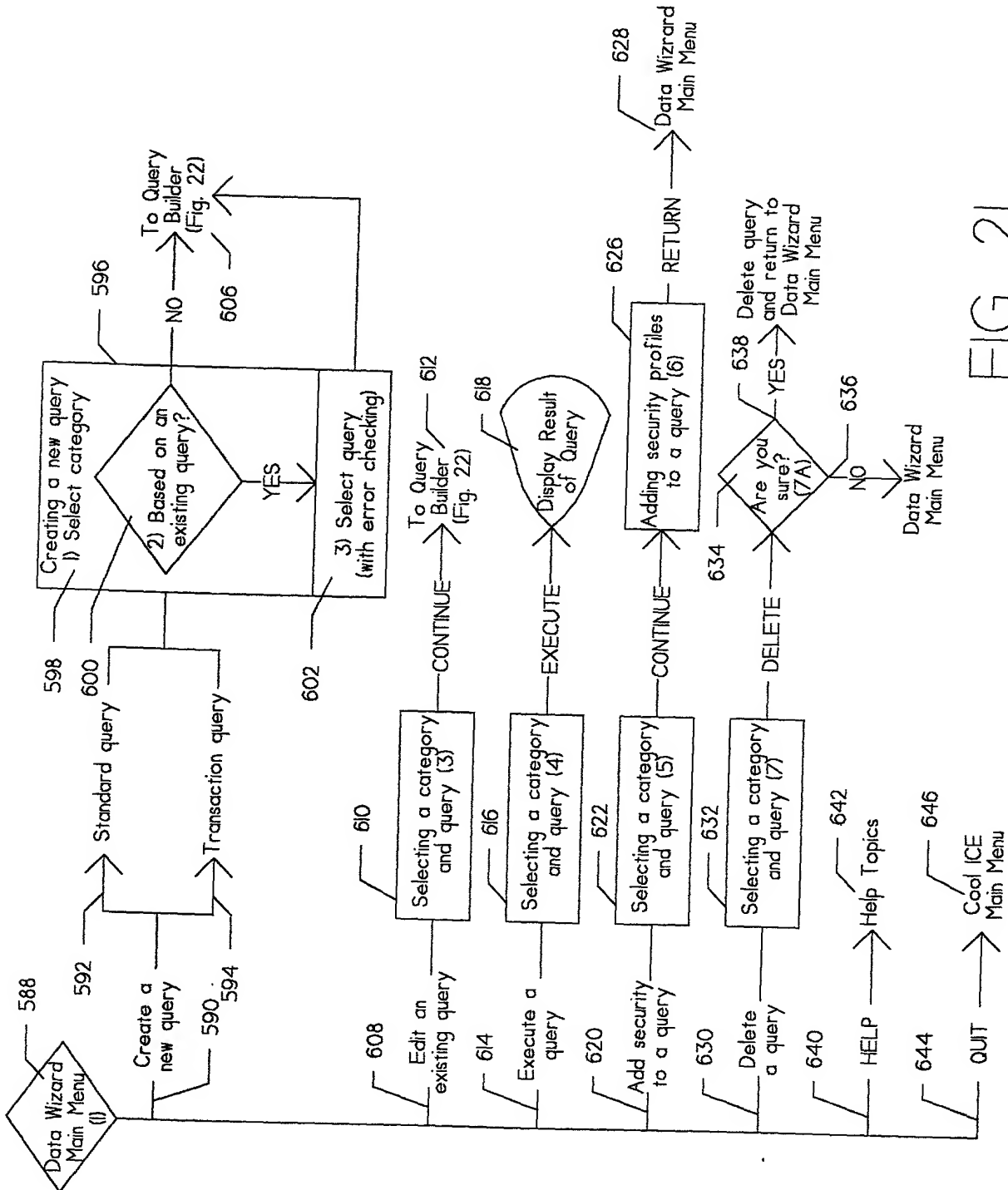


FIG. 21

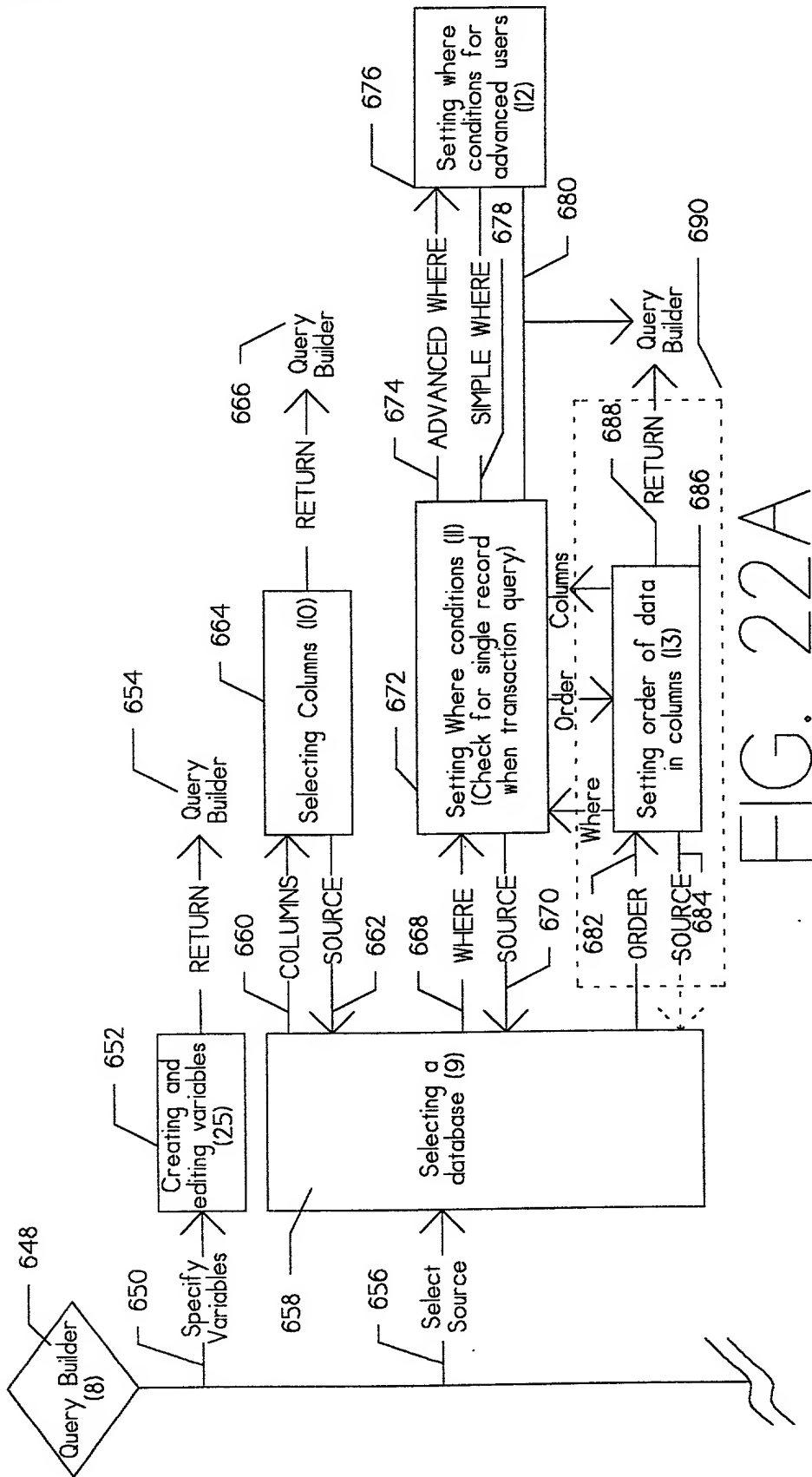


FIG. 22A

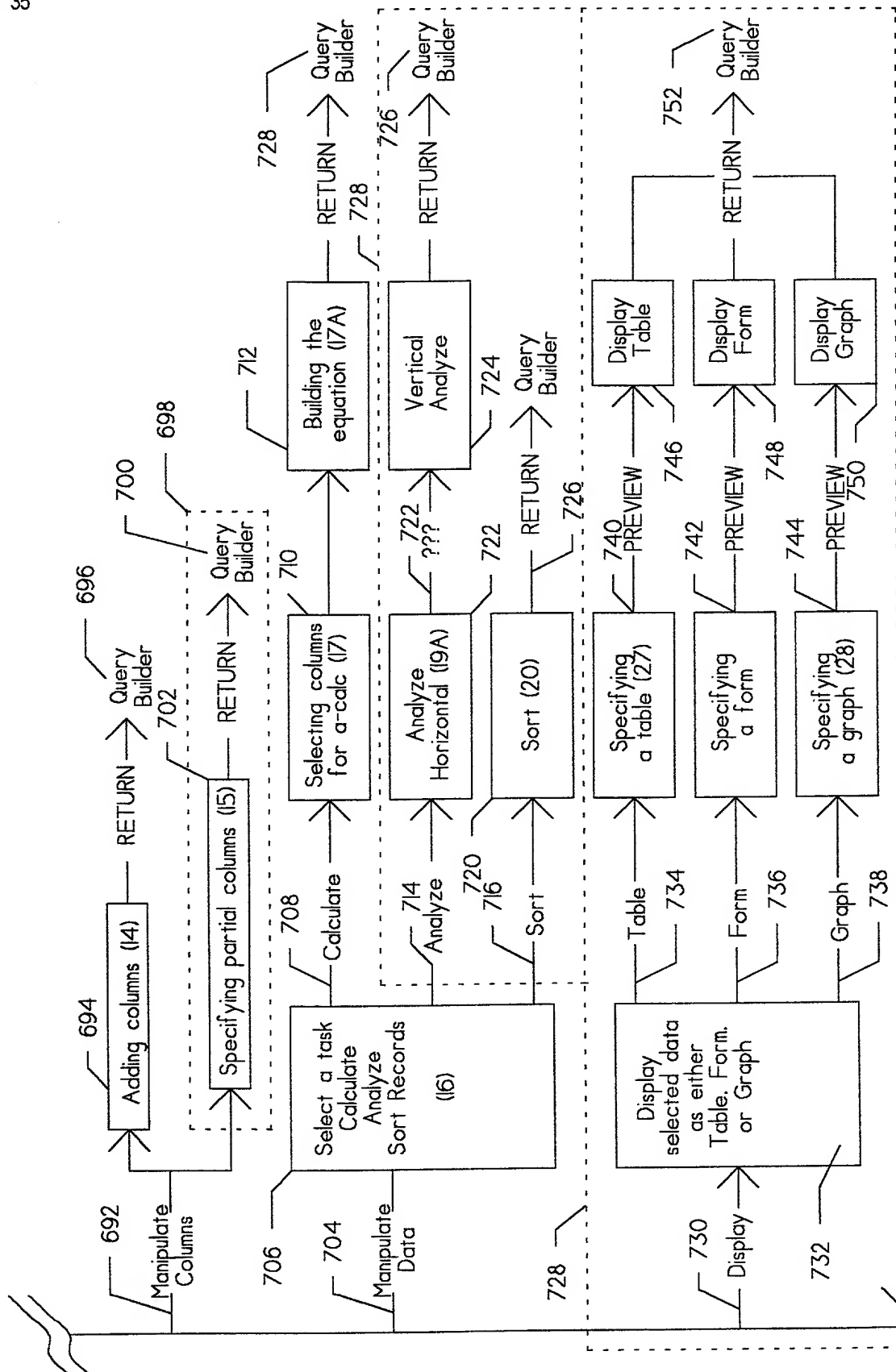


FIG. 22B

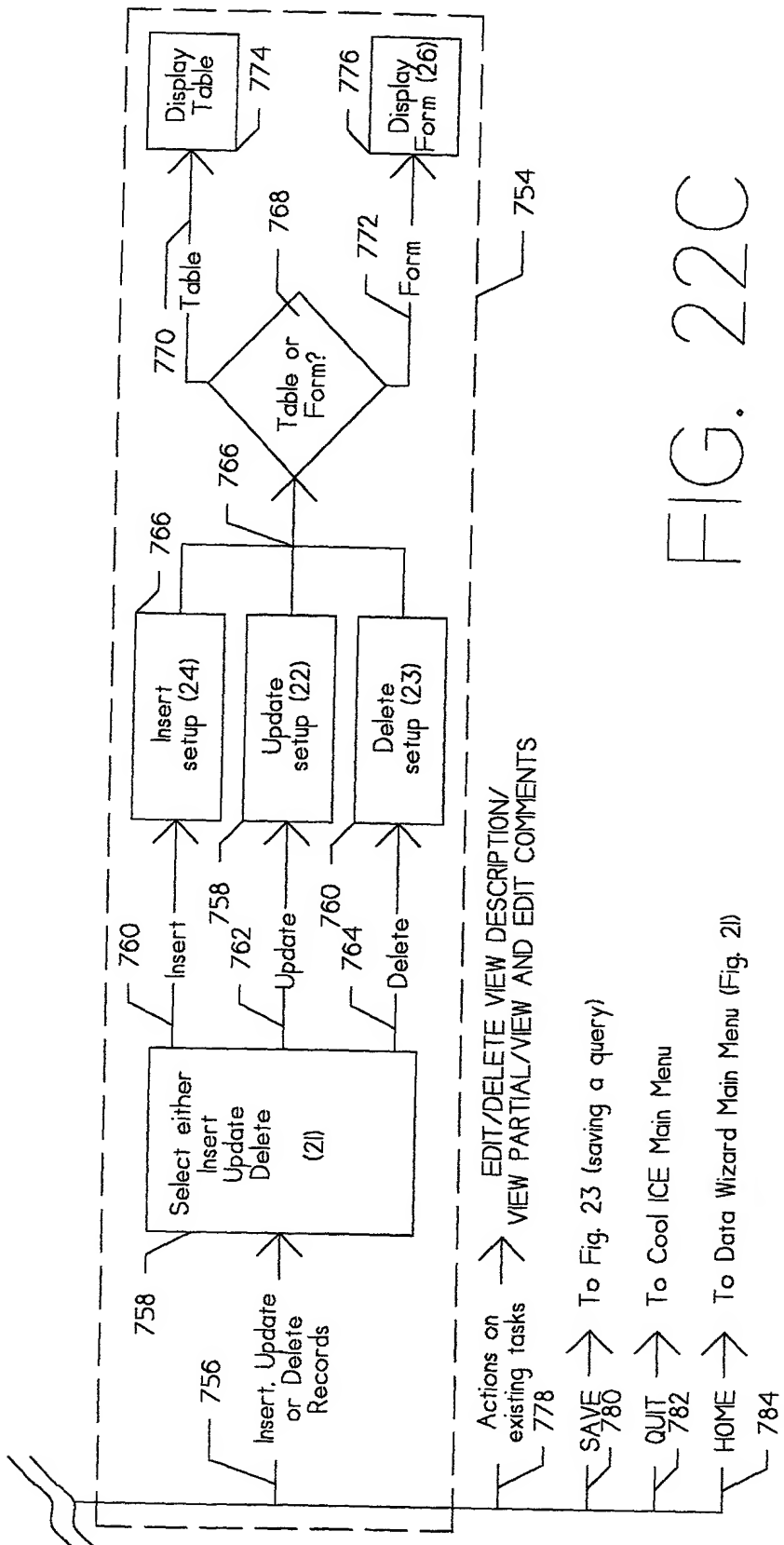


FIG. 22C

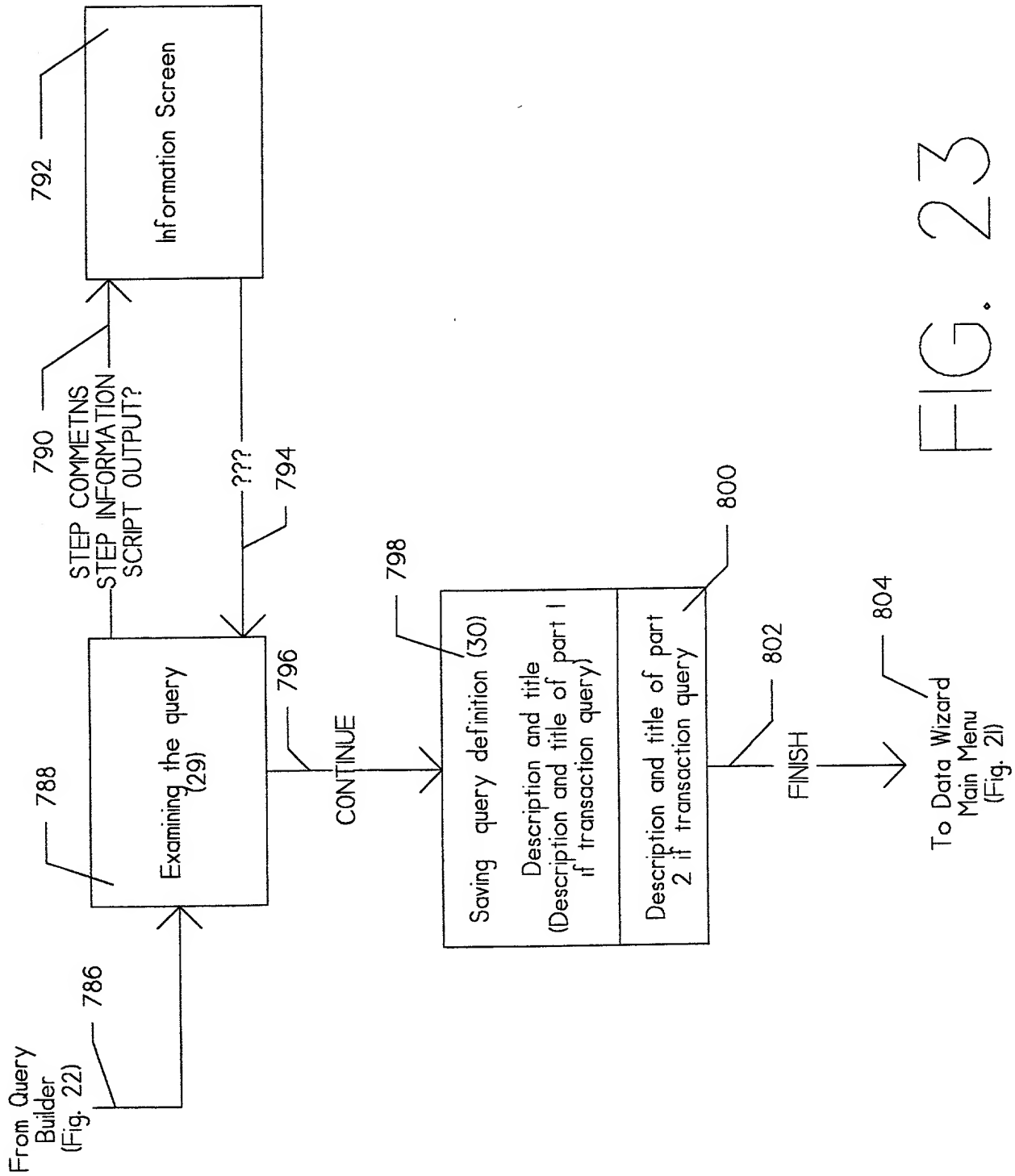


FIG. 23

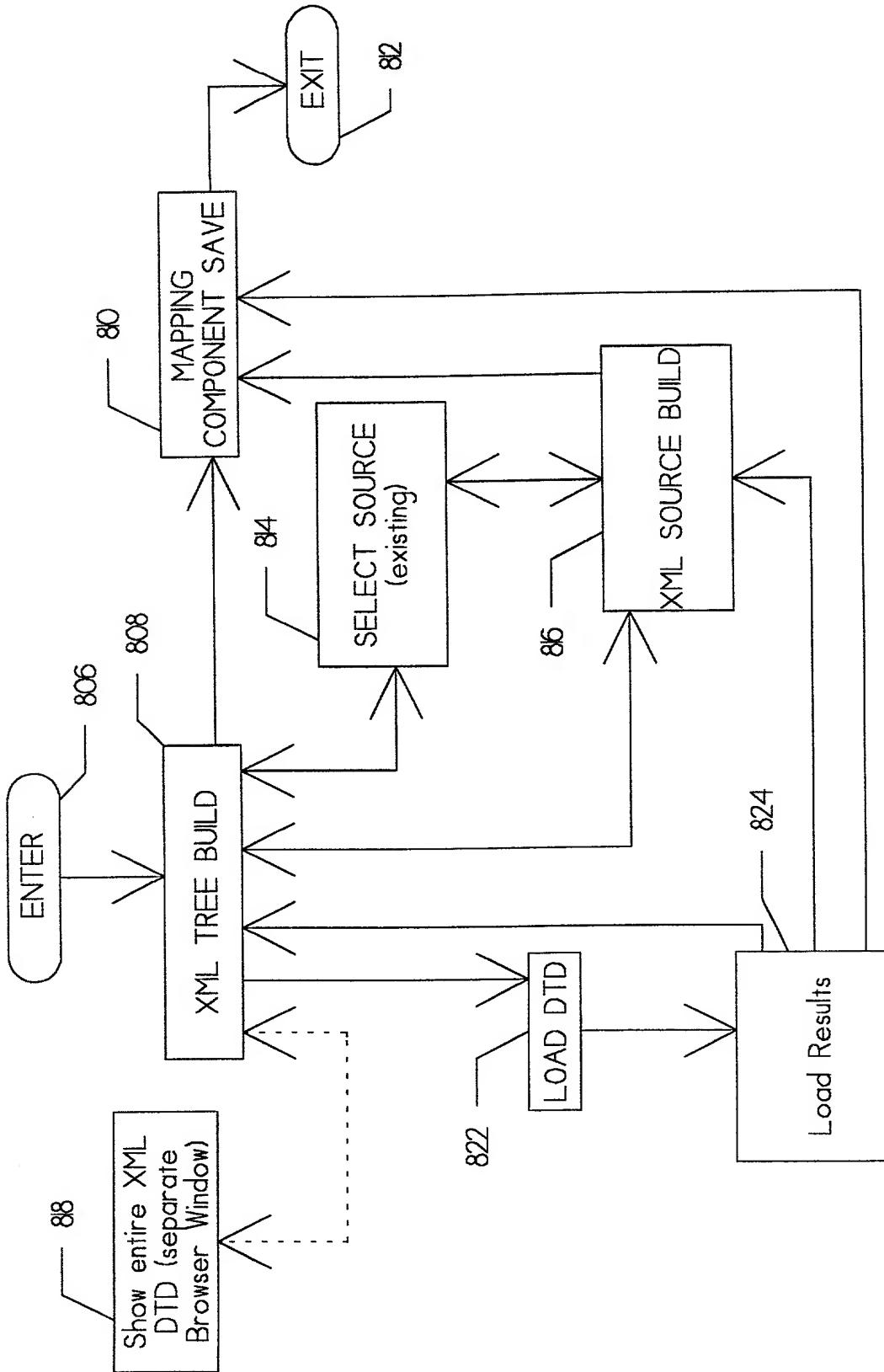


FIG. 24

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

828 Home Quit Cancel Help 872 Sources 874 Save 876

XML MAPPING ELEMENTS

ELEMENTS	858	Variables	856
Newspaper	<input type="radio"/>	Tables	<input type="radio"/>
Article	<input type="radio"/>	Article	<input type="radio"/>
Author	<input type="radio"/>	Article	<input type="radio"/>
Editor	<input type="radio"/>	Author	<input type="radio"/>
Date	<input type="radio"/>	Editor	<input type="radio"/>
Edition	<input type="radio"/>	Date	<input type="radio"/>
Headline	<input type="radio"/>	Edition	<input type="radio"/>
Byline	<input type="radio"/>	Headline	<input type="radio"/>
Lead	<input type="radio"/>	Byline	<input type="radio"/>
Body	<input type="radio"/>	Lead	<input type="radio"/>

CONTROLS

Mapping Type ☐ Open 868 ☐ Name Conversion ☐ Capital 864

Table Mapping ☐ Complete 866

Element Properties

Item Type ☐ Sequence 860 ☐ Element Form ☐ Rpt 861

Mapping ☐ Row Iterator 862 ☐ Value 863

FIG. 25

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XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

838	<input type="checkbox"/> Newspaper	<input type="radio"/> Tables	<input type="checkbox"/> Article	Mapping Type <input type="checkbox"/> Open <input checked="" type="checkbox"/> M 868	Name Conversion <input type="checkbox"/> Capital 864
840	<input type="checkbox"/> Article	<input type="radio"/> <input type="checkbox"/> Article	<input type="checkbox"/> Author	Table Mapping <input type="checkbox"/> Complete 866	
842	<input type="checkbox"/> Author	<input type="radio"/> Editor	<input type="checkbox"/> Date	Element Properties	
844	<input type="checkbox"/> Editor	<input type="radio"/> Date	<input type="checkbox"/> Edition	Item Type <input type="checkbox"/> Sequence 860	Element Form <input type="checkbox"/> Rpt 861
846	<input type="checkbox"/> Date	<input type="radio"/> Edition	<input type="checkbox"/> Headline	Mapping <input type="checkbox"/> Row Iterator 862	Value <input type="checkbox"/> 863
848	<input type="checkbox"/> Edition	<input type="radio"/> Headline	<input type="checkbox"/> Byline		
850	<input type="checkbox"/> Headline	<input type="radio"/> Byline	<input type="checkbox"/> Lead		
852	<input type="checkbox"/> Byline	<input type="radio"/> Lead	<input type="checkbox"/> Body		
854	<input type="checkbox"/> Lead	<input type="radio"/> Body	<input type="checkbox"/> Notes		
	<input type="checkbox"/> Body	<input type="radio"/> Notes			
	<input type="checkbox"/> Notes				

Actions 865

- Clear Mapping
- Add Sibling above
- Add Sibling below
- Add Childred
- Add Attributes
- Delete Branch
- Compact View
- Show Representation

826

FIG. 26

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

871 XML MAPPING ELEMENTS 872 [Redisplay] 873 [Save] 874 [Upload DTD] 876

ELEMENTS 858
Root

CONTROLS

Mapping Type
Open ☒ 868
Table Mapping
Complete ☒ 866
Name Conversion
Capital ☒ 864

Element Properties

Item Type
Sequence ☒ 860
Mapping
Row Iterator ☒ 862
Value
Rqrd Rpt ☒ 863

FIG. 27

870

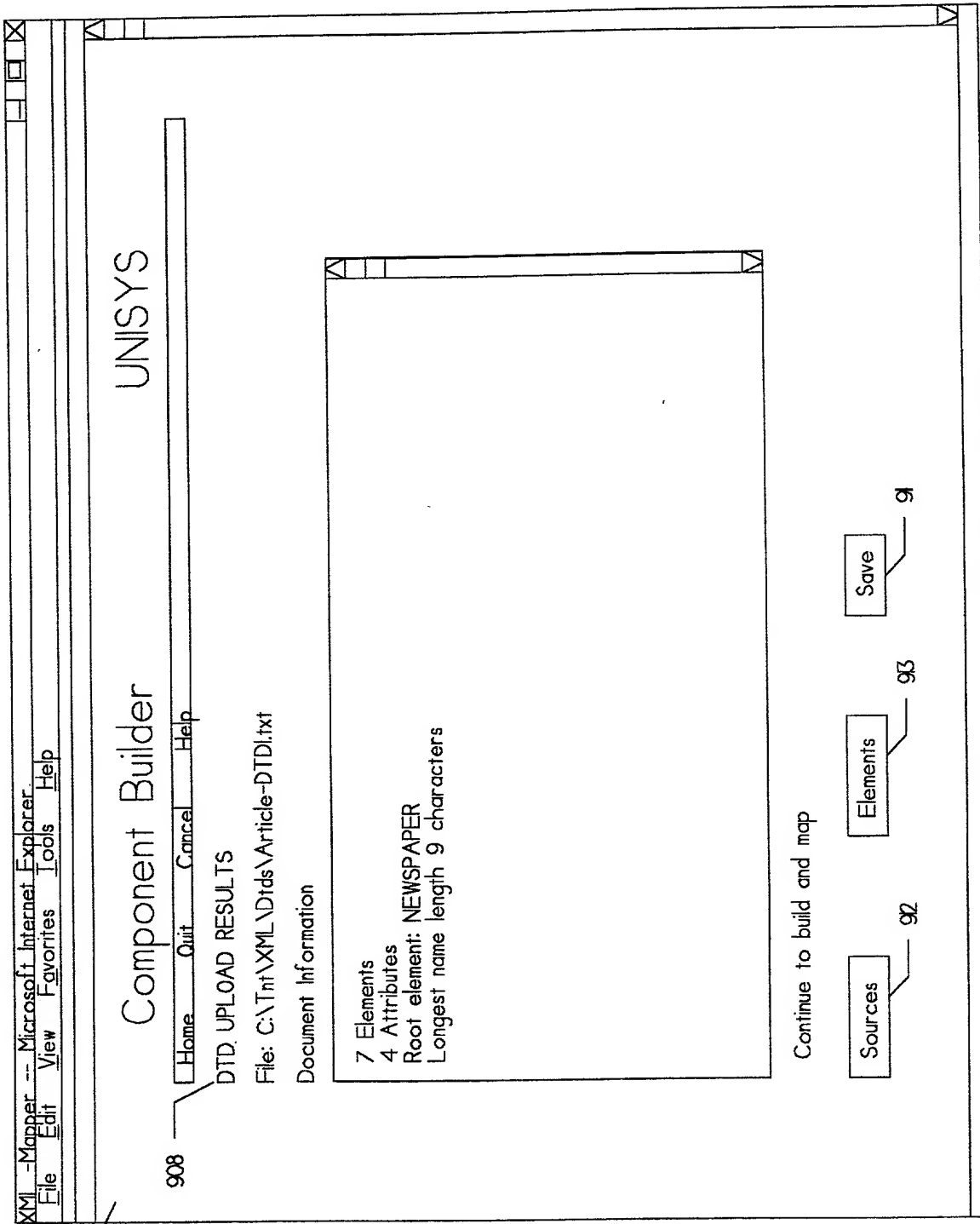


FIG. 28

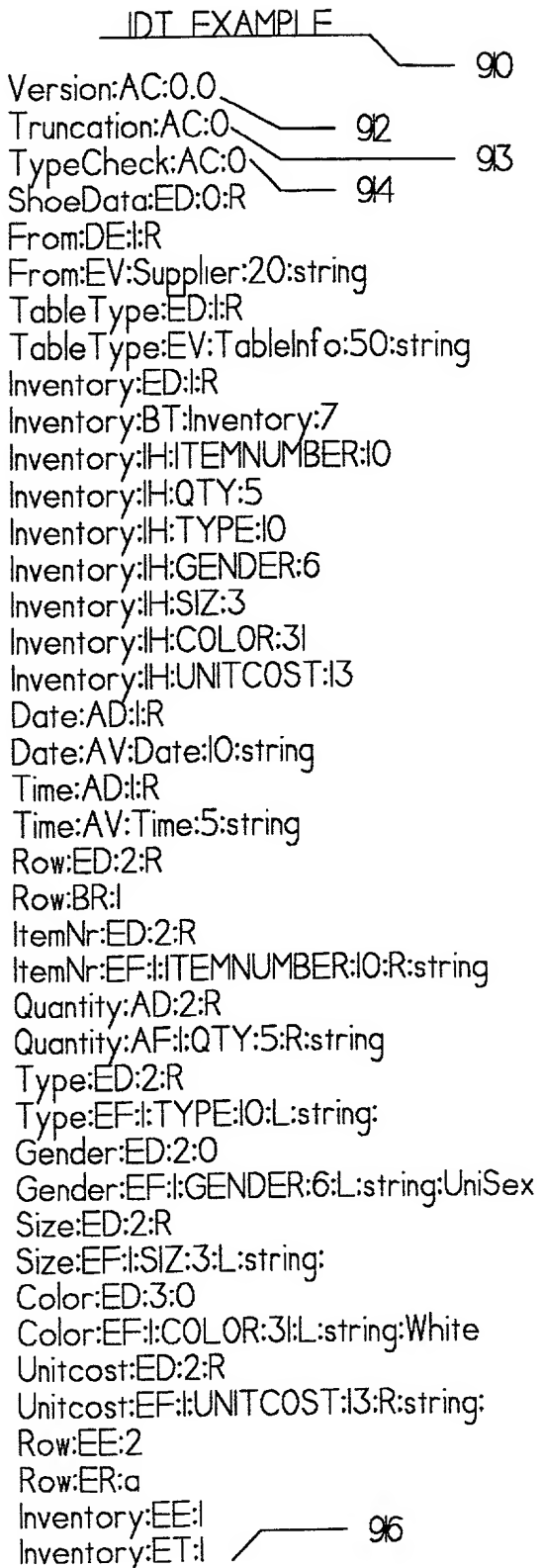


FIG. 29

DTD EXAMPLE 98

<!DOCTYPE ShoeData [

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

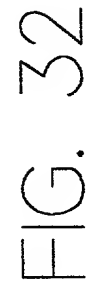
FIG. 30

XML INPUT DOCUMENT EXAMPLE

920

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
  <From>Roseville Store</From>
  <TableType>Low Inventory Count</TableType>
  <Inventory Date>2000-12-05</Inventory Date>
  <Row>
    <ItemNr Quantity="0">32335</ItemNr>
    <Type>Tennis</Type>
    <Gender>Mens</Gender>
    <Size>6</Size>
    <Color>White/Zen Grey/New Spruce</Color>
    <Unitcost>25.00</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="0">35410</ItemNr>
    <Type>Running</Type>
    <Gender>Womens</Gender>
    <Size>5</Size>
    <Color>White/Zen Grey/Neptune Blue</Color>
    <Unitcost>19.70</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="0">35411</ItemNr>
    <Type>Running</Type>
    <Gender>Womens</Gender>
    <Size>6</Size>
    <Color>White/Zen Grey/Neptune Blue</Color>
    <Unitcost>19.70</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="2">35420</ItemNr>
    <Type>Running</Type>
    <Gender>Womens</Gender>
    <Size>5</Size>
    <Color>White/Chlorine Blue/Hot Lime</Color>
    <Unitcost>19.70</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="1">37421</ItemNr>
    <Type>Golf</Type>
    <Gender>Womens</Gender>
    <Size>8</Size>
    <Color>White/Fluorescent Pink</Color>
    <Unitcost>35.00</Unitcost>
  </Row>
</Inventory>
</ShoeData>
<Color>White/Black-Hot Lime, Neo Teal</Color>
<Unitcost>40.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="0">32474</ItemNr>
  <Type>Tennis</Type>
  <Gender>Womens</Gender>
  <Size>8</Size>
  <Color>White/Light Marine-Ultramarine</Color>
  <Unitcost>25.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="1">35310</ItemNr>
  <Type>Running</Type>
  <Gender>Mens</Gender>
  <Size>6</Size>
```

FIG. 31



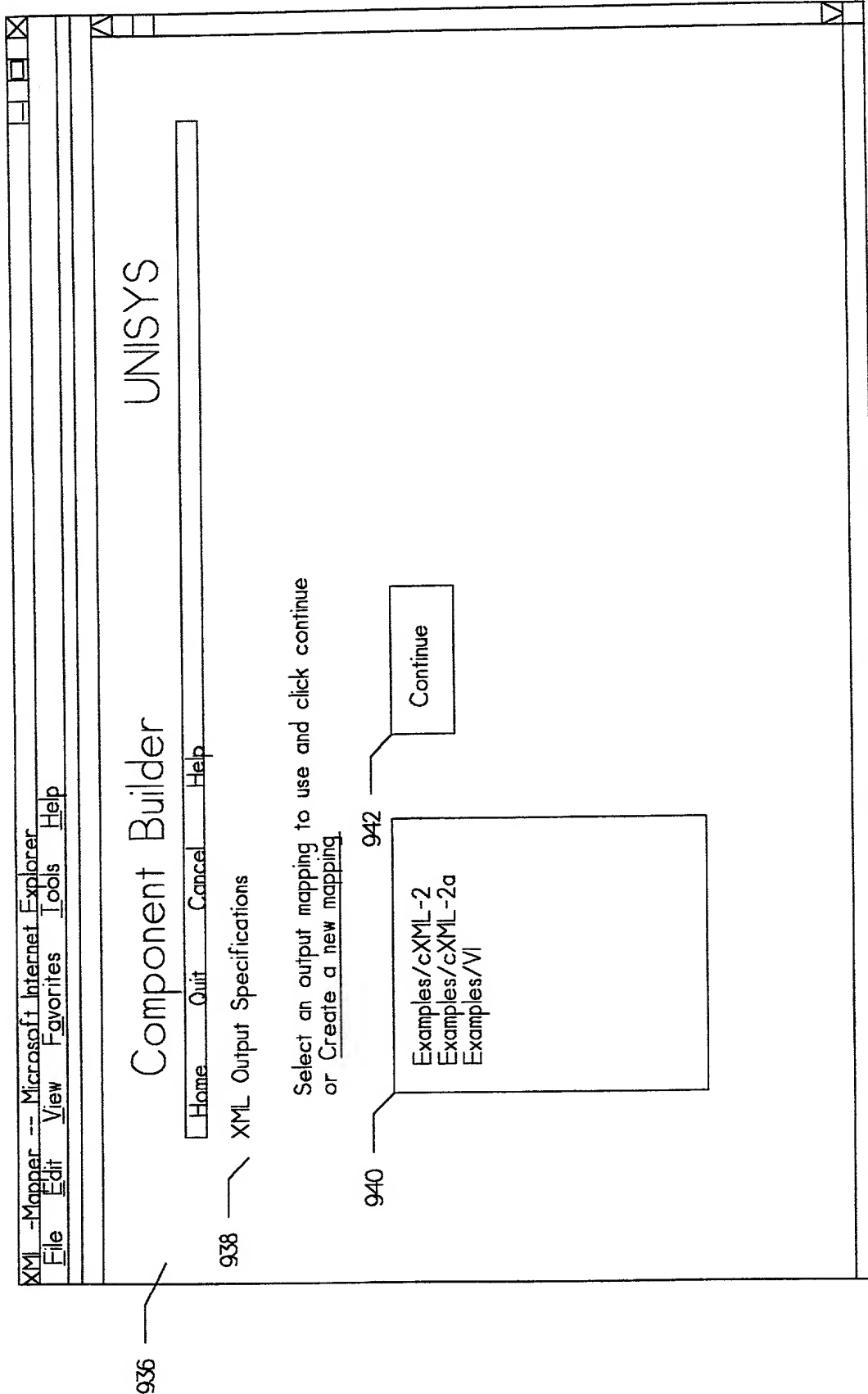


FIG. 33